

# Phosphorus Removal and Digester Improvements Project

June 2018

Construction Update Report

# Construction Update June 2018

- Construction Contractor: IHC Construction Companies
- Project Schedule:
  - ~~Commence Construction : September 27, 2017~~
  - Chemical Feed System Online : June 1, 2018 - Pending
  - Substantial Completion : February 6, 2019
  - Final Completion : March 8, 2019
- Construction Contract : \$13,294,896
- Approved Contract Change Orders: \$28,308.41
- Pending Contract Change Order:\$(-27,724.34)
- Amount Billed to Date: \$4,630,718
- Construction Percent Complete: 42%

# Construction Update June 2018

## Current Construction Activity

- South Anaerobic Digester
- AD Control Building
- Digested Sludge Tank
- Fermenter
- IR Pump Station
- Chemical Storage Building
- Blowers
- Biological Aeration Tanks
- Underground Piping



# Construction Update Topic #1

- Electrical Motor Control Panel Manufacture Delays
  - Issue:
    - Motor Control panels are currently delayed in manufacturing at Texas Plant
  - Reason:
    - Hurricane Harvey & Irma
    - Increase Demand and Texas Manufacture Plant Damage and Cause for Delays
      - Note: Federal Funded Project Requires American Made
  - Impacts:
    - EPA June Chemical Feed Deadline
    - Overall Project Schedule
  - Solution:
    - EPA will extend June Deadline we are not the only construction project faced with this challenge
    - Overall Project Schedule: Waiting on true delivery of equipment then contractor will review his overall schedule
  - June Update: **1 of 3 Motor Control Panels Received**
  - Council Action:
    - None at this time

# Construction Update Topic #2

- Holes and Metal Loss in I-Beam
  - Issue:
    - Structural Issues on Catwalk over Digester
  - Reason:
    - Sand blasting uncovered holes in I-beam
  - Impacts:
    - Additional Scope of Work for Contractor
  - Solution:
    - Contractor is pricing the repairs
  - Council Action:
    - None at this time





# South Anaerobic Digester



**South Boiler/Heat Exchanger in Place**



**Digester Gas Pipe Connection in South ESAD**

# Lower Aeration Work



**Aeration Basin 1401, Drained**



**Stainless Steel Air Header Pipe Supports in 1400 Basins**



**New Positive Displacement Blowers (B-1404 and B-1405) Placed on Equipment Pad**

# IR Pump Station

- Pump Station Elevated Slab



**Rebar for IR Pump Station Topping**



# Process Control Building



# Underground Work



**Excavation for Primary Sludge/TWAS Piping  
and Sanitary Manhole #2**



**Excavation for Digester Drain Pipes**

# Underground Work



**Digester Drain Pipes to Sanitary Manhole #1**



**Excavation for Primary Sludge Pipe Connection to the Grit Building**

# Site Page

- Phosphorus Removal & Digester Improvements Project Page-
  - <https://www.stcharlesil.gov/projects/2017-phosphorus-removal-and-digester-improvements>